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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/695,655	10	0/27/2003	Hsien-Chang Lin	JCLA8714 4053		
7	590 -	09/01/2005		EXAMINER		
J.C. Patents Suite 250				THOMPSON, CAMIE S		
4 Venture				ART UNIT	PAPER NUMBER	
Irvine, CA 92	2618			1774		
				DATE MAILED: 09/01/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	10)				
	10/695,655	LIN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Camie S. Thompson	1774					
The MAILING DATE of this communication app		orrespondence add	Iress				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on Amer	ndment filed on June 21. 2005.						
·= · ·	action is non-final.						
3) Since this application is in condition for allowar	<u> </u>						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-6 and 8-12 is/are pending in the app	olication.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-6 and 8-12</u> is/are rejected.							
7) Claim(s) is/are objected to.	and and the second second						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11) I he oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTC	D-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a)☐ All b)☐ Some * c)☐ None of:							
 Certified copies of the priority documents have been received. 							
2. Certified copies of the priority documents							
3. Copies of the certified copies of the prior		d in this National S	Stage				
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
dee the attached detailed Office action for a list of	or the certified copies not receive	u.					
Attachment(s)	·	(DTO 440)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal P		152)				
Paper No(s)/Mail Date	6)						

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DETAILED ACTION

- 1. Applicant's amendment and accompanying remarks filed June 21, 2005 have been acknowledged.
- Examiner acknowledges amended claims 1 and 8.
- 3. Examiner acknowledges cancelled claims 7 and 13-19.
- 4. The rejection of claims 8 and 19 under 35 U.S.C. 112, second paragraph is withdrawn due to applicant's amended claim 8 and cancelled 19.

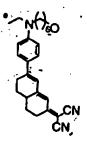
Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-6 and 8-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Jen et al., "Polyquinolines: Multifunctional Polymers for Electro-optic and Light-Emitting Applications".

The reference discloses the use of a non-linear optical chromophore with the following structure



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The structure listed above and found in the reference reads on compound represented in the instant claims when B and C are cyano; A is a substituted cyclohexene and Z is an electron donating group, -N(ethyl) (CH₂)₆-O per instant claims 1-3. The chromophore can be used in the luminescent layer of a light emitting device that comprises an indium tin oxide substrate on to a top electrode (see page 473). Additionally, the reference discloses that CuPc is used in the hole injection/transport layer (see page 476). Also, page 477 of the reference discloses a multilayer light emitting diode comprising a cathode. Figures 5 and 6 on page 477 of the reference disclose Alq₃ in the organic electroluminescent layer. An electron-transporting layer is disclosed in the reference on page 476. The reference also discloses that the organic electroluminescent layer can comprise an aromatic amine such as TPD. The reference discloses optical thin films of the polyquinolines have a thickness in the range of 1-2 μm (see page 473).

Response to Arguments

Applicant's arguments filed June 21, 2005 have been fully considered but they are not persuasive. In the previous Office Action, examiner indicated allowability of claim 7.

Examiner regrets the withdrawal of allowability. Applicant cancelled claim 7 and incorporated claim 7 into claim 1. The thickness of the optical thin films of side chain polyquinolines is disclosed in the reference. The reference discloses that the thickness is from 1-2μm. Applicant claims a range of 1 nm to about 1 μm. The reference does read on all the limitations of claim 1.

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Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena L Dye, can be reached at (571) 272-3186. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RENA DYE

SUPERVISORY PATENT EXAMINER

A.U. 1714